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APPLICATION NO. FILING DATE		TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/826,575 04/05/2001		Charles E. Loomis	HO-P02054US1	3001			
26271	7590	07/11/2003		•			
		WORSKI, LLP	EXAMINER				
1301 MCKINNEY SUITE 5100				CYGAN, MICHAEL T			
HOUSTON, TX 77010-3095		+ 0	ART UNIT	PAPER NUMBER			
				2855			
				DATE MAILED: 07/11/2003	DATE MAILED: 07/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	 			Application No.		Applicant(s)				
•	0.65	Action Summary		09/826,575		LOOMIS ET AL.				
•	· Oπic		E	xaminer		Art Unit				
	71	WO 5475 . (4) :		Michael Cygan		2855				
Period fo		ING DATE of this commu	nication appea	irs n'th cove	r sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status 1)⊠	Respons	ive to communication(s) f	iled on <i>24 .lun</i>	ne 2003						
2a)∏	·	on is FINAL.		action is non-f	inal					
3)			•			osecution as to th	e merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims										
4)🖂	Claim(s)	1-3,5-26,32-52 and 57-61	is/are pendin	g in the applic	ation.					
4	4a) Of the	above claim(s) is/a	are withdrawn	from consider	ation.					
5)	5) Claim(s) is/are allowed.									
	6)⊠ Claim(s) <u>1-3,5-26,32-52 and 57-61</u> is/are rejected.									
· <u> </u>	–	is/are objected to.								
	Claim(s) _ o n Papers	are subject to restri	ction and/or e	lection require	ment.					
	•		e Evaminer							
9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on <u>05 April 2001</u> is/are: a) □ accepted or b) ☑ objected to by the Examiner.										
ا لکے (۱۰		may not request that any ob			•					
11) <u></u> ⊤					/ · ·	` '	er.			
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.										
12) The oath or declaration is objected to by the Examiner.										
Priority u	nder 35 U	.S.C. §§ 119 and 120								
13)	Acknowled	dgment is made of a claim	n for foreign pi	riority under 35	5 U.S.C. § 119(a)	-(d) or (f).				
a)[] All b)□] Some * c) ☐ None of:								
	1. Cert	tified copies of the priority	documents h	ave been rece	ived.					
	2. Certified copies of the priority documents have been received in Application No									
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
		ment is made of a claim t					application).			
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.										
Attachment(s)										
2) Notice	of Draftsper	es Cited (PTO-892) son's Patent Drawing Review (F sure Statement(s) (PTO-1449) F	•	4)		(PTO-413) Paper No(atent Application (PT0				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 24 June 2003 has been entered.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the mylar bag and laminated structure must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Objecti ns

 Claim 58 is objected to because of the following informalities: in the last line, the word "more" appears to be missing but required. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
 - 4. Claims 1-3, 5, 9-14, 17-20, and 22-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over the OSHA Irritant Smoke Protocol (OSHA) in view of U. S. Patent Number 3,834,241 (Garren '241). OSHA discloses a sealed testing apparatus comprising a bulb (i.e., a pump) and a container portion (smoke tubes) having frangible ends, an outlet, and containing a chemical substance such as stannic chloride (SnCl₄) producing an "irritant smoke" upon exposure to air. The apparatus produces smoke used to check for leaks in equipment such as face seals, the smoke carrying an irritating scent noticeable by the equipment wearer. OSHA further discloses providing such an apparatus, storing a chemical having a selected scent in the apparatus prior to use, breaking an end portion, causing a chemical reaction between the chemical and air (the local

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environment), and operating a bulb to start a smoke test, and directing the smoke outward of the container and towards equipment such as a face seal. The smoke is visually observed as the test operator visually directs the smoke in three circumferential passes at a specified distance from the face seal. See page 227.

OSHA teaches the claimed invention except for an integral tubepump design and the method of forming that design. Garren '241 teaches
that it is known to assemble and use plastic tube-pump integral (one
piece) pipettes wherein the pump is seamlessly joined to the tube (Figures
1-3) in place of glass/rubber bulb pipettes (columns 1-2) to form a
substantially permanent structure. It would have been obvious to one
having ordinary skill in the art at the time the invention was made to form
an integral plastic pipette and use an integral plastic pipette as taught by
Garren '241 in place of the two piece pipette disclosed by OSHA, since
this would allow operation of the protocol without danger of untimely glass
breakage, reduced cost, and reduced assembly time (Garren column 1,
line 48 through column 2, line 17).

5. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over the OSHA Irritant Smoke Protocol (OSHA) in view of U. S. Patent Number 3,834,241 (Garren '241) as applied to claims 1, 17, and 22, further in view of U. S. Patent Number 5,073,347 (Garren '347). OSHA

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teaches the claimed invention except for the plastic being low-density polyethylene, or may be two different materials for bulb and tube. Garren '347 teaches the composition of a plastic pipette being low-density polyethylene or two different materials for bulb and tube (column 9. lines 41-65). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use low-density polyethylene or two different materials for bulb and tube as taught by Garren '347 in the invention taught by OSHA, since Garren teaches that such materials are inexpensive and resistant to contamination and breakage during transportation (column 1, lines 38-51).

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6. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over OSHA in view of U.S. 3,834,241 (Garren '241) as applied to claim 1, further in view of Rodrigues (US 3,938,392). OSHA in view of Garren '241 discloses a testing apparatus comprising a bulb (i.e., a pump) and a container portion (smoke tubes) having frangible ends and containing a chemical substance producing an "irritant smoke" upon exposure to air. The apparatus produces smoke used to check for leaks in equipment such as face seals. See page 227. OSHA teaches the claimed invention except for an integral tube-pump design having a finger hole in the pump area. Rodrigues teaches the provision of a finger hole in a flexible plastic pipette bulb (Figure 1) which is used as an improvement over the known

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glass/rubber two piece bulb (column 1, lines 5-30). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a finger hole as taught by Rodrigues in the invention taught by OSHA in view of Gerren, since this would allow operation of the protocol without danger of untimely glass breakage (see Rodrigues column 1, lines 11-12) or human injury (see OSHA page 277 lines 6-10) caused by operation of a two piece system having a class component.

7. Claims 8, 16, 21, 32-46, 52, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over the OSHA Irritant Smoke Protocol (OSHA) in view of U. S. Patent Number 3,834,241 (Garren '241) as applied to claims 1, 17, and 22, further in view of U. S. Patent Number 3,840,009 (Michaels). OSHA teaches the claimed invention except for the composition of the device being a laminate of two distinct material layers, one of which being a flexible (low-density) polyethylene, the other comprising a material which may be mylar (an inert, low-permeability material which is inherently substantially more impermeable than the polyethylene). Michael teaches a vapor delivery device in which the plastic pump and tube are formed of polyethylene laminates, one of which may be a polyethylene-Mylar laminate. It would have been obvious to one having ordinary skill in the at the time the invention was made to use polyethylene laminates including a polyethylene-Mylar laminate as taught

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by Michael in the invention taught by OSHA to form the casing material, since this will achieve both flexibility and substantial impermeability (see Michaels column 7, lines 49-52 and column 8, lines 1-7) of the device.

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- 8. Claims 36, 48, 49, 51, 58, 60, and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over the OSHA Irritant Smoke Protocol (OSHA) in view of U. S. Patent Number 3,834,241 (Garren '241) as applied to claims 1, 17, and 22, further in view of U. S. Patent Number 5,302,344 (Perlman). OSHA teaches the claimed invention except for the packaging of a pipette in a laminate bag. Perlman discloses laminate metal foil packaging film (inherently substantially more fluid impermeable than a polymer such as polyethylene) for wrapping pipettes; see column 8, lines 1-39. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a laminate packaging film as taught by Perlman in the invention taught by OSHA to package the pipette, since Perlman teaches that the laminates provide a sterile storage which prevents contamination prior to use.
- Claims 50 and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over the OSHA Irritant Smoke Protocol (OSHA) in view of U.
 Patent Number 3,834,241 (Garren '241) and in view of U. S. Patent Number 5,302,344 (Perlman) as applied to claims 36 and 58, further in

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view of U. S. Patent Number 6,098,802 (Asa). OSHA in view of Garren and Perlman teaches the claimed invention except for the packaging of a pipette in a mylar bag. Asa teaches that mylar is an equivalent packaging material to metal foil for the purpose of maintaining sterile pipettes; see column 5, line 64 through column 6, line 8. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use mylar as the packaging material in the invention taught by OSHA in view of Garren and Perlman to form an inert packaging, since Asa teaches that mylar is an equivalent packaging material to metal foil (as taught by Perlman) for the purpose of maintaining sterile pipettes.

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10. Claim 47 is rejected under 35 U.S.C. 103(a) as being unpatentable over the OSHA Irritant Smoke Protocol (OSHA) in view of U. S. Patent Number 3,834,241 (Garren '241) and in view of U. S. Patent Number 3,840,009 (Michaels) as applied to claims 36, further in view of U. S. Patent Number 3,938,392 (Rodrigues). OSHA teaches the claimed invention except for an integral tube-pump design having a finger hole in the pump area. Rodrigues teaches the provision of a finger hole in a flexible plastic pipette bulb (Figure 1) which is used as an improvement over the known glass/rubber two piece bulb (column 1, lines 5-30). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a finger hole as taught by Rodrigues in the invention

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taught by OSHA in view of Gerren, since this would allow operation of the protocol without danger of untimely glass breakage (see Rodrigues column 1, lines 11-12) or human injury (see OSHA page 277 lines 6-10) caused by operation of a two piece system having a class component.

Response to Arguments

Applicant's arguments filed 24 June 2003 have been fully considered but they are not persuasive. Applicant argues that (page 8):

11. "the pipette portion [of Garren] cannot be sealed as required by the present invention (without defeating the dispensing purpose of the pipette)." However, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). The primary reference (OSHA) teaches a sealed pipette; Garren is applied to teach the prior use and desirability of a plastic pipette over a glass pipette.

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12. "no motivation or incentive has surfaced to modify or deviate" from the "two-piece squeeze pump-glass tube design" (page 8). The examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, motivation was presented in the rejection, ".this would allow operation of the protocol without danger of untimely glass breakage, reduced cost, and reduced assembly time (Garren column 1, line 48 through column 2, line 17)."

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13. "users concerned with the smoke tube art"..." will not look to or necessarily happen upon, the teachings of the pipette art." It has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, it is noted that the smoke tube is a sealed pipette filled with a substance, and therefore the pipette art would certainly be reasonably pertinent to the particular problem with

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which the applicant was concerned. Note that the motivation for applying the teaching from the pipette art included "reduced cost" and operation "without danger of untimely glass breakage"; this certainly is pertinent to the smoke tube art which the applicant characterizes as "primarily concerned with minimizing cost and risk" (see applicant's response page 9).

- 14. "no reasonable expectation of success" (pages 9-10). In addition to the above presented arguments, Garren explicitly recites the expected benefits of replacing a two-piece squeeze pump-glass tube design with a plastic design at a section (column 1, lines 39+) cited in the rejection.
- 15. The Perlman reference does not teach "a laminate that substantially encases the pump-container portion structure"; instead, teaching only "prepackaging that is removed prior to an autoclaving process" and is "directed to laboratory equipment, which is not the relevant art" (page 10). Perlman discloses such a laminate enclosing an entire pipette (column 8, lines 1-39). In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., not prepackaging and not laboratory equipment) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification

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are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Cygan whose telephone number is 703-305-0846. The examiner can normally be reached on 8:30-6 M-Th, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 703-305-4816. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Michael Cygan July 9, 2003